

Federal Communications Commission

§ 17.57

Oct. 24, 2014. For the convenience of the user, the revised text is set forth as follows:

§ 17.50 Cleaning and repainting.

Antenna structures requiring painting under this part shall be cleaned or repainted as often as necessary to maintain good visibility. Evaluation of the current paint status shall be made by using the FAA's In-Service Aviation Orange Tolerance Chart. This chart is based upon the color requirements contained in the National Bureau of Standards Report NBSIR 75-663, Color Requirements for the Marking of Obstructions.

§ 17.51 Time when lights should be exhibited.

(a) All red obstruction lighting shall be exhibited from sunset to sunrise unless otherwise specified.

(b) All high intensity and medium intensity obstruction lighting shall be exhibited continuously unless otherwise specified.

[40 FR 30267, July 18, 1975, as amended at 61 FR 4364, Feb. 6, 1996]

EFFECTIVE DATE NOTE: At 79 FR 56987, Sept. 24, 2014, §17.51 was removed and reserved, effective Oct. 24, 2014.

§ 17.53 Lighting equipment and paint.

The lighting equipment, color or filters, and shade of paint referred to in the specifications are further defined in the following government and/or Army-Navy aeronautical specifications, bulletins, and drawings (lamps are referred to by standard numbers):

Outside white	TT-P-102 ¹ (Color No. 17875, FS-595).
Aviation surface orange	TT-P-59 ¹ (Color No. 12197, FS-595).
Aviation surface orange, enamel.	TT-E-489 ¹ (Color No. 12197, FS-595).
Aviation red obstruction light—color.	MIL-C-25050 ² .
Flashing beacons	CAA-446 ³ Code Beacons, 300 mm.
Do	MIL-6273 ² .
Double and single obstruction light.	L-810 ³ (FAA AC No. 150/5345-2 ⁴).
Do	MIL-L-7830 ² .
High intensity white obstruction light.	FAA/DOD L-856 (FAA AC No. 150/5345-43B ⁴).
116-Watt lamp	No. 116 A21/TS (6,000 h).
125-Watt lamp	No. 125 A21/TS (6,000 h).
620-Watt lamp	No. 620 PS-40 (3,000 h).
700-Watt lamp	No. 700 PS-40 (6,000 h).

¹Copies of this specification can be obtained from the Specification Activity, Building 197, Room 301, Naval Weapons Plant, 1st and N Streets, SE., Washington, D.C. 20407.

²Copies of Military specifications can be obtained by contacting the Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Ave., Attention: NPPC-105, Philadelphia, Pa. 19120.

³Copies of Federal Aviation Administration specifications may be obtained from the Chief, Configuration Control Branch, AAF-110, Department of Transportation, Federal Aviation Administration, 800 Independence Avenue SW., Washington, D.C. 20591.

⁴Copies of Federal Aviation Administration advisory circulars may be obtained from the Department of Transportation, Publications Section, TAD-443.1, 400 7th St. SW., Washington, D.C. 20590.

[33 FR 11540, Aug. 14, 1968, as amended at 40 FR 30267, July 18, 1975]

§ 17.54 Rated lamp voltage.

To insure the necessary lumen output by obstruction lights, the rated voltage of incandescent lamps used shall correspond to be within 3 percent higher than the voltage across the lamp socket during the normal hours of operation.

[42 FR 54826, Oct. 11, 1977]

§ 17.56 Maintenance of lighting equipment.

(a) Replacing or repairing of lights, automatic indicators or automatic control or alarm systems shall be accomplished as soon as practicable.

(b) The flash tubes in a high intensity obstruction lighting system shall be replaced whenever the peak effective daytime intensity falls below 200,000 candelas.

[40 FR 30267, July 18, 1975]

EFFECTIVE DATE NOTE: At 79 FR 56987, Sept. 24, 2014, §17.56 was revised, effective Oct. 24, 2014. For the convenience of the user, the revised text is set forth as follows:

§ 17.56 Maintenance of lighting equipment.

Replacing or repairing of lights, automatic indicators or automatic control or alarm systems shall be accomplished as soon as practicable.

§ 17.57 Report of radio transmitting antenna construction, alteration, and/or removal.

The owner of an antenna structure for which an Antenna Structure Registration Number has been obtained must notify the Commission within 24 hours of completion of construction (FCC Form 854-R) and/or dismantlement (FCC Form 854). The owner must also immediately notify the Commission using FCC Form 854 upon any change in structure height or change in ownership information.

[61 FR 4364, Feb. 6, 1996]

§ 17.58

EFFECTIVE DATE NOTE: At 79 FR 56987, Sept. 24, 2014, §17.57 was revised, effective Oct. 24, 2014. For the convenience of the user, the revised text is set forth as follows:

§ 17.57 Report of radio transmitting antenna construction, alteration, and/or removal.

The owner of an antenna structure for which an Antenna Structure Registration Number has been obtained must notify the Commission within 5 days of completion of construction (FCC Form 854-R) and/or dismantlement (FCC Form 854). The owner must also notify the Commission within 5 days of any change in structure height or change in ownership information (FCC Form 854).

§ 17.58 Facilities to be located on land under the jurisdiction of the U.S. Forest Service or the Bureau of Land Management.

Any application proposing new or modified transmitting facilities to be located on land under the jurisdiction of the U.S. Forest Service or the Bureau of Land Management shall include a statement that the facilities will be so located, and the applicant shall comply with the requirements of §1.70 of this chapter.

[32 FR 11274, Aug. 3, 1967]

EFFECTIVE DATE NOTE: At 79 FR 56987, Sept. 24, 2014, §17.58 was removed and reserved, effective Oct. 24, 2014.

PART 18—INDUSTRIAL, SCIENTIFIC, AND MEDICAL EQUIPMENT

Subpart A—General Information

- Sec.
- 18.101 Basis and purpose.
- 18.107 Definitions.
- 18.109 General technical requirements.
- 18.111 General operating conditions.
- 18.113 Inspection by Commission representatives.
- 18.115 Elimination and investigation of harmful interference.
- 18.117 Report of interference investigation.
- 18.121 Exemptions.

Subpart B—Applications and Authorizations

- 18.201 Scope.
- 18.203 Equipment authorization.
- 18.207 Technical report.
- 18.209 Identification of authorized equipment.
- 18.211 Multiple listing of equipment.
- 18.212 Compliance information.
- 18.213 Information to the user.

47 CFR Ch. I (10–1–14 Edition)

Subpart C—Technical Standards

- 18.301 Operating frequencies.
- 18.303 Prohibited frequency bands.
- 18.305 Field strength limits.
- 18.307 Conduction limits.
- 18.309 Frequency range of measurements.
- 18.311 Methods of measurements.

AUTHORITY: 47 U.S.C. 4, 301, 302, 303, 304, 307.

SOURCE: 50 FR 36067, Sept. 5, 1985, unless otherwise noted.

Subpart A—General Information

§ 18.101 Basis and purpose.

The rules in this part, in accordance with the applicable treaties and agreements to which the United States is a party, are promulgated pursuant to section 302 of the Communications Act of 1934, as amended, vesting the Federal Communications Commission with authority to regulate industrial, scientific, and medical equipment (ISM) that emits electromagnetic energy on frequencies within the radio frequency spectrum in order to prevent harmful interference to authorized radio communication services. This part sets forth the conditions under which the equipment in question may be operated.

§ 18.107 Definitions.

(a) *Radio frequency (RF) energy.* Electromagnetic energy at any frequency in the radio spectrum from 9 kHz to 3 THz (3,000 GHz).

(b) *Harmful interference.* Interference which endangers the functioning of a radionavigation service or of other safety services or seriously degrades, obstructs or repeatedly interrupts a radiocommunication service operating in accordance with this chapter.

(c) *Industrial, scientific, and medical (ISM) equipment.* Equipment or appliances designed to generate and use locally RF energy for industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of telecommunication. Typical ISM applications are the production of physical, biological, or chemical effects such as heating, ionization of gases, mechanical vibrations, hair removal and acceleration of charged particles.

(d) *Industrial heating equipment.* A category of ISM equipment used for or